

SUPPLEMENTARY TABLE 2. Estimated number and percentage* of children enrolled in kindergarten by grace period/provisional enrollment and reported type of exemption from vaccination, by immunization program† — United States and territories, 2018-19 school year

Immunization program	Grace Period / Provisional Enrollment,‡ no. (%)	Medical exemptions, no. (%)	Nonmedical exemptions			Any exemption			Percentage point difference (2017-18 to 2018-19)
			Religious no.	Philosophic no.	Total no. (%)	2018-2019, no.	2018-2019 %	2017-2018 %	
National Estimate	2.0	0.3	—	—	2.2	—	2.5	2.3	0.2
Median¶	1.8	0.2	—	—	2.5	—	2.6	2.2	0.4
Alabama	NP	62 (0.1)	667	**	667 (0.9)	624	0.8	0.9	-0.1
Alaska††	NR	51 (0.5)	680	**	680 (6.6)	731	7.1	7.0	0.1
Arizona	NR	26 (<0.1)	§§	4,755	4,755 (5.9)	4,781	6.0	5.8	0.2
Arkansas	1,786 (4.5)	15 (<0.1)	255	456	711 (1.8)	726	1.8	1.7	0.1
California	9,819 (1.7)	3,434 (0.6)	§§	**	§§, **	3,434	0.6	0.7	-0.1
Colorado***	414 (0.6)	115 (0.2)	221	2,796	3,017 (4.7)	3,132	4.9	4.7	0.2
Connecticut	NP	86 (0.2)	941	**	941 (2.5)	1,027	2.7	2.3	0.4
Delaware	NR	28 (0.3)	106	**	106 (1.0)	133	1.2	1.4	-0.2
District of Columbia	NR	NR	NR	**	NR	NR	NR	NR	NA
Florida	6,451 (2.9)	828 (0.4)	6,472	**	6,472 (2.9)	7,300	3.2	2.9	0.3
Georgia	324 (0.2)	124 (0.1)	3,116	**	3,116 (2.4)	3,240	2.5	2.7	-0.2
Hawaii	207 (1.3)	10 (0.1)	702	**	702 (4.4)	712	4.4	3.1	1.3
Idaho	498 (2.2)	82 (0.4)	¶¶	¶¶	1,696 (7.4)	1,778	7.7	7.1	0.6
Illinois***	1,523 (1.1)	346 (0.2)	2,220	**	2,220 (1.5)	2,566	1.8	1.6	0.2
Indiana	NR	252 (0.3)	783	**	783 (1.0)	1,035	1.3	0.9	0.4
Iowa	1,228 (3.0)	87 (0.2)	873	**	873 (2.1)	960	2.4	2.0	0.4
Kansas††	NR	122 (0.3)	688	**	688 (1.8)	810	2.1	1.7	0.4
Kentucky	NR	140 (0.3)	661	**	661 (1.2)	801	1.4	1.4	0.0
Louisiana	NA	53 (0.1)	37	581	618 (1.1)	671	1.2	1.1	0.1
Maine	NR	79 (0.6)	54	698	752 (5.6)	831	6.2	5.3	0.9
Maryland	NR	299 (0.4)	772	**	772 (1.1)	1,071	1.5	1.5	0.0
Massachusetts	NP	171 (0.3)	749	**	749 (1.1)	920	1.4	1.3	0.1
Michigan	705 (0.6)	296 (0.2)	1,274	3,825	5,099 (4.3)	5,395	4.5	4.2	0.3
Minnesota***	NR	163 (0.2)	¶¶	¶¶	2,450 (3.5)	2,613	3.7	3.5	0.2
Mississippi	212 (0.6)	47 (0.1)	§§	**	§§, **	47	0.1	0.1	0.0
Missouri***	NR	129 (0.2)	1,819	**	1,819 (2.5)	1,948	2.7	2.3	0.4
Montana	238 (1.9)	27 (0.2)	529	**	529 (4.2)	556	4.5	4.3	0.2
Nebraska	356 (1.3)	127 (0.5)	441	**	441 (1.6)	568	2.1	2.2	-0.1
Nevada	376 (1.0)	70 (0.2)	1,197	**	1,197 (3.2)	1,267	3.3	3.2	0.1
New Hampshire	610 (4.9)	29 (0.2)	379	**	379 (3.1)	408	3.3	2.9	0.4
New Jersey	1,168 (1.1)	183 (0.2)	2,510	**	2,510 (2.3)	2,693	2.5	2.2	0.3
New Mexico	472 (1.9)	84 (0.3)	303	**	303 (1.2)	388	1.5	1.7	-0.2
New York (including New York City)	4,108 (1.9)	315 (0.1)	2,447	**	2,447 (1.1)	2,762	1.3	1.1	0.2
New York City	1,136 (1.2)	70 (0.1)	633	**	633 (0.7)	703	0.7	0.7	0.0
North Carolina	2,007 (1.6)	167 (0.1)	1,871	**	1,871 (1.5)	2,038	1.6	2.0	-0.4
North Dakota	NR	36 (0.3)	89	320	409 (3.9)	445	4.3	3.4	0.9
Ohio	9,369 (6.7)	334 (0.2)	¶¶	¶¶	3,673 (2.6)	4,007	2.9	2.6	0.3
Oklahoma	NR	79 (0.1)	440	915	1,355 (2.5)	1,434	2.6	2.2	0.4
Oregon	NR	56 (0.1)	¶¶	¶¶	3,457 (7.5)	3,513	7.7	7.6	0.1
Pennsylvania	3,757 (2.6)	547 (0.4)	1,786	1,885	3,671 (2.6)	4,218	2.9	2.8	0.1
Rhode Island	NR	16 (0.1)	123	**	123 (1.1)	139	1.3	1.1	0.2
South Carolina	500 (0.9)	92 (0.2)	1,420	**	1,420 (2.4)	1,512	2.6	2.0	0.6
South Dakota	NR	22 (0.2)	293	**	293 (2.4)	315	2.6	2.2	0.4
Tennessee	1,235 (1.6)	129 (0.2)	1,390	**	1,390 (1.8)	1,519	1.9	1.5	0.4
Texas (including Houston)	5,778 (1.5)	972 (0.2)	¶¶	¶¶	8,502 (2.2)	9,474	2.4	2.0	0.4
Houston	538 (1.4)	102 (0.3)	¶¶	¶¶	479 (1.3)	581	1.5	1.2	0.3
Utah	1,169 (2.3)	77 (0.2)	51	2,708	2,759 (5.5)	2,836	5.7	5.3	0.4
Vermont	313 (5.1)	19 (0.3)	269	**	269 (4.4)	288	4.7	3.8	0.9
Virginia††	NR	317 (0.3)	1,406	**	1,406 (1.4)	1,722	1.7	1.5	0.2
Washington	1,496 (1.7)	673 (0.8)	252	3,712	3,964 (4.5)	4,389	5.0	4.7	0.3
West Virginia†††	454 (2.3)	161 (0.8)	§§	**	§§, **	161	0.8	0.2	0.6
Wisconsin††	3,253 (4.9)	160 (0.2)	354	3,370	3,724 (5.6)	3,884	5.9	5.4	0.5
Wyoming	194 (2.5)	15 (0.2)	210	**	210 (2.7)	225	2.9	NA	NA
American Samoa	NP	NA	NA	**	NA	NA	NA	0	NA
Guam	NR	NR	1	**	1 (0.1)	1	0.1	0.4	-0.3
Marshall Islands	NR	0 (0.0)	§§	**	NA	0	0	0	0.0
Federated States of Micronesia	NR	0 (0.0)	0	0	0 (0.0)	0	0.0	0.0	0.0
N. Mariana Islands	NR	0 (0.0)	0 (0.0)	**	0 (0.0)	0	0	0	0.0
Palau§§§	NR	0 (0.0)	¶¶	¶¶	0 (0.0)	0	0	0	0.0

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Immunization program	Grace Period / Provisional Enrollment, [§] no. (%)	Medical exemptions, no. (%)	Nonmedical exemptions			Any exemption			
			Religious no.	Philosophic no.	Total no. (%)	2018-2019, no.	2018-2019 %	2017-2018 %	Percentage point difference (2017-18 to 2018-19)
Puerto Rico	NR	115 (0.4)	304	**	304 (1.2)	419	1.6	NA	NA
U.S. Virgin Islands	NA	NA	NA	NA	NA	NA	NA	NA	NA

Abbreviations: NA = not available; NR = not reported to CDC; NP = State does not allow grace period or provisional enrollment

*Estimates are adjusted for nonresponse and weighted for sampling where appropriate.

[†]Medical exemptions, nonmedical exemptions, and grace period/provisional enrollment status might not be mutually exclusive. Some children might have both medical and nonmedical exemptions, and some enrolled under a grace period/provisional enrollment might be exempt from one or more vaccinations.

[§]A grace period is a set number of days during which a student can be enrolled and attend school without proof of complete vaccination or exemption. Provisional enrollment allows a student without complete vaccination or exemption to attend school while completing a catch-up vaccination schedule. In states with one or both of these policies, the estimates represent the number of kindergartners within a grace period, provisionally enrolled, or some combination of these categories.

[¶]Medians calculated from data from 50 states. District of Columbia did not report exemption data due to problems with data collection. Jurisdictions excluded were Houston, New York City, American Samoa, Guam, Marshall Islands, Federated States of Micronesia, N. Mariana Islands, Palau, Puerto Rico, and U.S. Virgin Islands were excluded. Grace period/provisional enrollment median was calculated from data from 30 states. Data reported from 3,643,598 for kindergartners assessed for exemptions and 2,813,482 for grace period/provisional enrollment. Estimates represent rates for populations of 4,001,401; and 3,025,009 kindergartners for exemptions and grace period/provisional enrollment, respectively.

**Philosophical exemptions were not allowed.

^{††}Vaccination coverage data were collected from a sample, and exemption data were collected from a census of kindergartners. For Alaska, exemption data are based on 8,702 kindergartners. For Kansas, Virginia, and Wisconsin, vaccination coverage data were collected from a sample, and exemption data were collected from a census of kindergartners. Exemption estimates in these states are based on 31,792; 95,875; and 66,652 kindergartners, respectively.

^{§§}Religious exemptions were not allowed.

^{¶¶}Religious and philosophical exemptions were not reported separately.

^{***}Program did not report the number of children with exemptions, but instead reported the number of exemptions for each vaccine, which could count some children more than once. Lower bounds of the percentage of children with any exemptions were estimated using the individual vaccines with the highest number of exemptions.

^{†††}Reported public school data only.

^{§§§}For Palau, estimates represent exemptions among children in 1st grade.